AUTHOR INDEX

Volume 79 • 1999

Abiko, Y. *See* Ma, H.
Aihara, S. *See* Murakami, N.
Akaike, A. *See* Kihara, T.
Akaza, H. *See* Ideyama, Y.
Akima, M. *See* Sakai, K.
Alfaro, M.J. *See* Goicoechea, C.
Ang, H.H. and Cheang, H.S.
Anxiolytic activity of *E. longifolia* Jack 497
Arai, H. *See* Marubuchi, S.
Araki, H. *See* Kawasaki, H.
Asai, H., Kinoshita, K., Yamamura, M. and Matsuoka, Y.
Diversity of TRH receptors 313
Asano, T. *See* Takei, R.
Azuma, Y., Kawasaki, T., Ikemoto, K., Ohno, K., Yamada, T., Yamasaki, M. and Nobuhara, Y.
Effect of NTE-122 on macrophage ACAT 159
Azuma, Y., Kawasaki, T., Ohno, K., Seto, J., Yamada, T., Yamasaki, M. and Nobuhara, Y.
Effect of NTE-122 on HepG2 ACAT 151

Barros, H.M.T. *See* Thiesen, F.V.
Braghiroli, L. *See* Saso, L.
Brioni, J.D. *See* Zhu, D.X.-D.

Casini M.L. *See* Saso, L.
Cheang, H.S. *See* Ang, H.H.
Chiba, S. *See* Yang, X.-P.
Chisaka, K. *See* Sanae, F.

Dendorfer, A. *See* Wolfrum, S.
Dendorfer, A., Wolfrum, S. and Dominiak, P.
Cardiovascular implications of kinins 403
Dominiak, P. *See* Dendorfer, A.
—— *See* Wolfrum, S.

Enjoji, A. *See* Furuichi, A.
—— *See* Sakurai-Yamashita, Y.

Fujii, T. *See* Nakaki, T.
Fujikura, T. *See* Ideyama, Y.
Fujimoto, J.M. *See* Holmes, B.B.
Fujiseki, Y., Omori, Kyoko, Omori, Koichiro, Mikami, Y., Suzukawa, J., Okugawa, G., Uyama, M. and Inagaki, C.
NPR-A and NPR-B receptors on PRE cells 359
Fujita, K., Nagata, K., Watanabe, E., Shimada, M. and Yamazoe, Y.
Characterization of ST1B1 467
Fukunaga, H., Takahashi, M., Kaneto, H. and Yoshikawa, M.
Tyr-MIF-1, stress and morphine tolerance 231
Fukunaga, K. and Miyamoto, E.
CaM kinase II in hippocampal LTP and memory 7
Fukushima, T. *See* Nitta, T.
Furui, J. *See* Furuichi, A.
Furuichi, A., Makimoto, N., Ogishima, M., Nakao, K., Enjoji, A., Furui, J., Kanematsu, T. and Taniyama, K.
In vivo microdialysis in intestine 109

Goicoechea, C., Porras, E., Alfaro, M.J. and Martin, M.I.
Alendronate-induced antinociception in mice 433
Gomita, Y. *See* Kawasaki, H.
Goto, K. *See* Omiya, Y.
—— *See* Suzuki, Y.
Goto, S. and Shimokawa, T.
Hypocholesterolemic agent YM-16638 75
Gotoh, M. *See* Okubo, K.
Grippa, E. *See* Saso, L.

Hara, Akiyoshi *See* Ma, H.
Hara, Atsuko *See* Okamoto, T.
Hara, K. *See* Okamoto, T.
Harada, J. and Sugimoto, M.
Neuroprotection by p38/JNK inhibitor 369
Hashizume, H. *See* Ma, H.
Hata, T., Nishikawa, Hiroyuki, Itoh, E. and Watanabe, A.
Stress and depressive state with anxiety 243
Hayashi, H. *See* Sanae, F.
Hino, O. *See* Okamoto, T.
Hiramatsu, K. *See* Shichijo, M.
Hitomi, Y. *See* Okamoto, T.
Holmes, B.B., Rady, J.J., Smith, D.J. and Fujimoto, J.M.
Neurotensin antianalgesia by spinal CCK 141
Horita, T. *See* Waki, Y.
Hotta, N. *See* Uemura, K.

Ideyama, Y., Kudoh, M., Tanimoto, K., Susaki, Y., Nanya, T., Nakahara, T., Ishikawa, H., Fujikura, T., Akaza, H. and Shikama, H.
Inhibition of C17-20 lyase by YM116 213
Iguchi, A. *See* Uemura, K.
Ikegaki, I. *See* Takei, R.
Ikemoto, K. *See* Azuma, Y.
Inada, Y. *See* Song, K.
Inagaki, C. *See* Fujiseki, Y.
Inagaki, N. *See* Shichijo, M.
Ishigami, Y. *See* Masutani, M.
Ishige, A. *See* Omiya, Y.
—— *See* Suzuki, Y.
Ishikawa, H. *See* Ideyama, Y.
Ishikawa, M. *See* Takahashi, S.
Itoh, E. *See* Hata, T.
Iwai, S. *See* Okazaki, Masako
Iwamoto, T. *See* Yasuda, T.
Iwanaga, Y. *See* Musoh, K.
Iwasaki, T. *See* Masutani, M.
Iwata, K. *See* Murakami, N.
Izumi, F. *See* Nagase, Y.

Kagota, S. *See* Nakamura, Kazuki
Kaibara, M. *See* Nagase, Y.
—— *See* Takemura, K.
Kamei, J. *See* Ohsawa, M.
—— *See* Suzuki, Y.
Kameyama, K. *See* Nishijima, H.
Kanda, Y. *See* Okazaki, Masako
Kanehara, H. *See* Song, K.
Kanematsu, T. *See* Furuichi, A.
—— *See* Sakurai-Yamashita, Y.
Kaneto, H. *See* Fukunaga, H.
—— *See* Takahashi, M.
Kasugai, S. *See* Waki, Y.

AUTHOR INDEX

Volume 79 • 1999

Abiko, Y. *See* Ma, H.
Aihara, S. *See* Murakami, N.
Akaike, A. *See* Kihara, T.
Akaza, H. *See* Ideyama, Y.
Akima, M. *See* Sakai, K.
Alfaro, M.J. *See* Goicoechea, C.
Ang, H.H. and Cheang, H.S.
Anxiolytic activity of *E. longifolia* Jack 497
Arai, H. *See* Marubuchi, S.
Araki, H. *See* Kawasaki, H.
Asai, H., Kinoshita, K., Yamamura, M. and Matsuoka, Y.
Diversity of TRH receptors 313
Asano, T. *See* Takei, R.
Azuma, Y., Kawasaki, T., Ikemoto, K., Ohno, K., Yamada, T., Yamasaki, M. and Nobuhara, Y.
Effect of NTE-122 on macrophage ACAT 159
Azuma, Y., Kawasaki, T., Ohno, K., Seto, J., Yamada, T., Yamasaki, M. and Nobuhara, Y.
Effect of NTE-122 on HepG2 ACAT 151

Barros, H.M.T. *See* Thiesen, F.V.
Braghiroli, L. *See* Saso, L.
Brioni, J.D. *See* Zhu, D.X.-D.

Casini M.L. *See* Saso, L.
Cheang, H.S. *See* Ang, H.H.
Chiba, S. *See* Yang, X.-P.
Chisaka, K. *See* Sanae, F.

Dendorfer, A. *See* Wolfrum, S.
Dendorfer, A., Wolfrum, S. and Dominiak, P.
Cardiovascular implications of kinins 403
Dominiak, P. *See* Dendorfer, A.
—— *See* Wolfrum, S.

Enjoji, A. *See* Furuichi, A.
—— *See* Sakurai-Yamashita, Y.

Fujii, T. *See* Nakaki, T.
Fujikura, T. *See* Ideyama, Y.
Fujimoto, J.M. *See* Holmes, B.B.
Fujiseki, Y., Omori, Kyoko, Omori, Koichiro, Mikami, Y., Suzukawa, J., Okugawa, G., Uyama, M. and Inagaki, C.
NPR-A and NPR-B receptors on PRE cells 359
Fujita, K., Nagata, K., Watanabe, E., Shimada, M. and Yamazoe, Y.
Characterization of ST1B1 467
Fukunaga, H., Takahashi, M., Kaneto, H. and Yoshikawa, M.
Tyr-MIF-1, stress and morphine tolerance 231
Fukunaga, K. and Miyamoto, E.
CaM kinase II in hippocampal LTP and memory 7
Fukushima, T. *See* Nitta, T.
Furui, J. *See* Furuichi, A.
Furuichi, A., Makimoto, N., Ogishima, M., Nakao, K., Enjoji, A., Furui, J., Kanematsu, T. and Taniyama, K.
In vivo microdialysis in intestine 109

Goicoechea, C., Porras, E., Alfaro, M.J. and Martin, M.I.
Alendronate-induced antinociception in mice 433
Gomita, Y. *See* Kawasaki, H.
Goto, K. *See* Omiya, Y.
—— *See* Suzuki, Y.
Goto, S. and Shimokawa, T.
Hypocholesterolemic agent YM-16638 75
Gotoh, M. *See* Okubo, K.
Grippa, E. *See* Saso, L.

Hara, Akiyoshi *See* Ma, H.
Hara, Atsuko *See* Okamoto, T.
Hara, K. *See* Okamoto, T.
Harada, J. and Sugimoto, M.
Neuroprotection by p38/JNK inhibitor 369
Hashizume, H. *See* Ma, H.
Hata, T., Nishikawa, Hiroyuki, Itoh, E. and Watanabe, A.
Stress and depressive state with anxiety 243
Hayashi, H. *See* Sanae, F.
Hino, O. *See* Okamoto, T.
Hiramatsu, K. *See* Shichijo, M.
Hitomi, Y. *See* Okamoto, T.
Holmes, B.B., Rady, J.J., Smith, D.J. and Fujimoto, J.M.
Neurotensin antianalgesia by spinal CCK 141
Horita, T. *See* Waki, Y.
Hotta, N. *See* Uemura, K.

Ideyama, Y., Kudoh, M., Tanimoto, K., Susaki, Y., Nanya, T., Nakahara, T., Ishikawa, H., Fujikura, T., Akaza, H. and Shikama, H.
Inhibition of C17-20 lyase by YM116 213
Iguchi, A. *See* Uemura, K.
Ikegaki, I. *See* Takei, R.
Ikemoto, K. *See* Azuma, Y.
Inada, Y. *See* Song, K.
Inagaki, C. *See* Fujiseki, Y.
Inagaki, N. *See* Shichijo, M.
Ishigami, Y. *See* Masutani, M.
Ishige, A. *See* Omiya, Y.
—— *See* Suzuki, Y.
Ishikawa, H. *See* Ideyama, Y.
Ishikawa, M. *See* Takahashi, S.
Itoh, E. *See* Hata, T.
Iwai, S. *See* Okazaki, Masako
Iwamoto, T. *See* Yasuda, T.
Iwanaga, Y. *See* Musoh, K.
Iwasaki, T. *See* Masutani, M.
Iwata, K. *See* Murakami, N.
Izumi, F. *See* Nagase, Y.

Kagota, S. *See* Nakamura, Kazuki
Kaibara, M. *See* Nagase, Y.
—— *See* Takemura, K.
Kamei, J. *See* Ohsawa, M.
—— *See* Suzuki, Y.
Kameyama, K. *See* Nishijima, H.
Kanda, Y. *See* Okazaki, Masako
Kanehara, H. *See* Song, K.
Kanematsu, T. *See* Furuichi, A.
—— *See* Sakurai-Yamashita, Y.
Kaneto, H. *See* Fukunaga, H.
—— *See* Takahashi, M.
Kasugai, S. *See* Waki, Y.

Kato, H. *See* Musoh, K.
Katsuyama, I. *See* Sakai, K.
Kawahara, M. *See* Kimura, J.
Kawakami, N. *See* Nishijima, H.
Kawamura, K. *See* Musoh, K.
Kawasaki, H., Okazaki, Masatoshi, Nakatsuma, A., Mimaki, Y., Araki, H. and Gomita, Y.
ACE inhibitors and CGRP nerves in SHR 221
Kawasaki, T. *See* Azuma, Y.
Kihara, T., Shimohama, S. and Akaike, A.
Effect of nicotine on beta-sheet 393
Kimura, J., Kawahara, M., Sakai, E., Yatabe, J. and Nakanishi, H.
Effect of JTV-519 on i_{Na} 275
Kinoshita, K. *See* Asai, H.
Kitamura, K. *See* Nishijima, H.
Kitamura, Y., Taniguchi, T. and Shimohama, S.
Apoptotic cell death in AD brain 1
Kizaki, H. *See* Tanimoto, Y.
Kobayashi, N. *See* Takahashi, S.
Kogo, H. *See* Tamura, K.
Kohri, H. *See* Yasuda, T.
Koida, M. *See* Nitta, T.
Komatsu, Y. *See* Omiya, Y.
—— *See* Sanae, F.
—— *See* Suzuki, Y.
Kubo, S. *See* Morita, K.
Kudoh, M. *See* Ideyama, Y.
Kumasaka, K. *See* Tamura, K.
Kumazaki, T. *See* Teranishi, Y.
Kunitomo, M. *See* Nakamura, Kazuki
Kwon, Y.M. *See* Nakamura, Kazuki

Ma, H., Hashizume, H., Hara, Akiyoshi, Yazawa, K. and Abiko, Y.
Quinaprilat on LPC-induced cell damage 17
Makimoto, N. *See* Furuichi, A.
Mameya, S. *See* Takemura, K.
Martin, M.I. *See* Goicoechea, C.
Marubuchi, S, Mori, Y., Noto, M., Urata, N., Mizuo, M. and Arai, H.
Gastroprotective effect of T-593 and NO 195
Masutani, M., Ohyanagi, M., Shibuya, J., Ishigami, Y. and Iwasaki, T.
Gi in small artery from SHR 185
Matsui, H. *See* Teramoto, S.
Matsukubo, S. *See* Uemura, N.
Matsuoka, Y. *See* Asai, H.
Matsuse, T. *See* Teramoto, S.
Mattei, E. *See* Saso, L.
Mazzanti, G. *See* Saso, L.
Mikami, Y. *See* Fujiseki, Y.
Mimaki, Y. *See* Kawasaki, H.
Miura, H. *See* Uemura, K.
Miyake, I. *See* Musoh, K.
Miyamoto, E. *See* Fukunaga, K.
Miyamoto, K. *See* Waki, Y.
Miyazaki, M. *See* Song, K.
Miyazaki, M., Shiota, N., Sakonjo, H. and Takai, S.
Role of Ang II on neointima formation 455
Mizuo, M. *See* Marubuchi, S.
Mizutani, Y. *See* Takeda, M.
Mori, M. *See* Tsushima, H.
Mori, Y. *See* Marubuchi, S.
Morikawa, K. *See* Musoh, K.
Morita, K., Tokunaga, I. and Kubo, S.
Toxic effect of paraquat on glioma cells 121
Motoie, H. *See* O'uchi, N.
Murakami, M., Tokutomi, N., Tokutomi, Y., Tomita, K. and Nishi, K.
Alkalinization response of megakaryocyte 343
Murakami, N., Aihara, S., Iwata, K., Saito, T. and Naruse, T.
Effect of M-5011 on cytokine levels 439
Musoh, K., Kawamura, K., Miyake, I., Shimada, S., Ohashi, T., Iwanaga, Y., Morikawa, K. and Kato, H.
Long bronchodilation by tulobuterol tape 401

Nagai, H. *See* Shichijo, M.
Nagase, Y., Kaibara, M., Uezono, Y., Izumi, F., Sumikawa, K. and Taniyama, K.
Propofol inhibits M1 muscarinic receptor 319
Nagata, K. *See* Fujita, K.
Nakahara, T. *See* Ideyama, Y.
Nakaki, T. and Fujii, T.
Nitration in vivo 125
Nakamura, A. and Shiomi, H.
Neuropharmacology of nociceptors 427
Nakamura, Kazuki, Yamaguchi, Y., Kagota, S., Kwon, Y.M., Shinozuka, K. and Kunitomo, M.
Anti-metastatic effect of *Cordyceps sinensis* 335
Nakamura, Kazuki, Yamaguchi, Y., Kagota, S., Shinozuka, K. and Kunitomo, M.
Effects of *Cordyceps* on Kupffer cell 505
Nakamura, Koichi *See* Uemura, N.
Nakamuta, H. *See* Nitta, T.
Nakanishi, H. *See* Kimura, J.
Nakano, S. *See* Uemura, N.
Nakano, Y. *See* Okamoto, T.
Nakao, K. *See* Furuichi, A.
Nakatsuma, A. *See* Kawasaki, H.
Nanya, T. *See* Ideyama, Y.
Naruse, T. *See* Murakami, N.
Nishi, K. *See* Murakami, M.
Nishijima, H., Uchida, R., Kameyama, K., Kawakami, N., Ohkubo, T. and Kitamura, K.
Vasodilating actions of eugenol 327
Nishikawa, Haruko *See* O'uchi, N.
Nishikawa, Hiroyuki *See* Hata, T.
Nitta, T., Fukushima, T., Nakamuta, H. and Koida, M.
Steroid-induced osteopenia in rats 379
Nobuhara, Y. *See* Azuma, Y.
Noguchi, K. *See* Yasuda, T.
Noto, M. *See* Marubuchi, S.
Nyu, S. *See* Uemura, N.

Ogishima, M. *See* Furuichi, A.
Oguchi, K. *See* Okazaki, Masako
Ohara, M. *See* Yasuda, T.
Ohashi, T. *See* Musoh, K.
Ohga, E. *See* Teramoto, S.
Ohkubo, T. *See* Nishijima, H.
Ohno, K. *See* Azuma, Y.
Ohsawa, M. and Kamei, J.
Morphine withdrawal and diabetes 303
Ohya, K. *See* Waki, Y.
Ohyanagi, M. *See* Masutani, M.
Okabe, S. *See* Takahashi, S.
Okamoto, T., Hitomi, Y. and Hara, Atsuko
Cyclosporine A and Fas-induced hepatitis 485
Okamoto, T., Nakano, Y., Yamakawa, T., Hara, K., Yamamura, K. and Hino, O.
Induction of CPP32 activity in chronic hepatitis 289
Okazaki, Masako, Tsuji, M., Yamazaki, Y., Kanda, Y., Iwai, S.

and Oguchi, K.
Anti-degranulation effect of SE 489
Okazaki, Masatoshi *See* Kawasaki, H.
Okubo, K., Pawankar, R., Gotoh, M. and Yagi, T.
Adhesive explant culture of nasal mucosa 351
Okugawa, G. *See* Fujiseki, Y.
Omiya, Y., Goto, K., Suzuki, Y., Ishige, A. and Komatsu, Y.
Processed *Aconiti* tuber and dynorphin 295
Omori, Koichiro *See* Fujiseki, Y.
Omori, Kyoko *See* Fujiseki, Y.
Onishi, Y. *See* Tanimoto, Y.
O'uchi, N., Nishikawa, Haruko, Motoie, H. and Shikama, H.
Prevention of bone resorption by YM175 397
Ouchi, Y. *See* Teramoto, S.
Ozono, R. *See* Teranishi, Y.

Panzironi, C. *See* Saso, L.
Pawankar, R. *See* Okubo, K.
Porras, E. *See* Goicoechea, C.

Rady, J.J. *See* Holmes, B.B.

Saito, T. *See* Murakami, N.
Sakai, E. *See* Kimura, J.
Sakai, K., Akima, M. and Katsuyama, I.
Anti-ulcer effects of nicorandil 51
Sakonjo, H. *See* Miyazaki, M.
Sakurai-Yamashita, Y., Takada, K., Takemura, K., Yamashita, K., Enjoji, A., Kanematsu, T. and Taniyama, K.
Binding of mosapride to 5-HT_4 receptor 493
Sanae, F., Hayashi, H., Chisaka, K. and Komatsu, Y.
Theophylline and *Saiko-ka-ryukotsu-borei-to* 283
Saso, L., Valentini, G., Casini M.L., Mattei, E., Braghiroli, L., Mazzanti, G., Panzironi, C., Grippa, E. and Silvestrini, B.
Natural antidenaturant agents 89
Sato, S. *See* Yasuda, T.
Sato, Y. *See* Tanimoto, Y.
Senba, E. *See* Yasuda, T.
Seto, J. *See* Azuma, Y.
Shibata, K. *See* Takei, R.
Shibuya, J. *See* Masutani, M.
Shichijo, M., Shimizu, Y., Hiramatsu, K., Togawa, M., Inagaki, N., Takagi, K. and Nagai, H.
IPD-1151T on cytokine release from basophils 501
Shigeta, J. *See* Takahashi, S.
Shikama, H. *See* Ideyama, Y.
—— *See* O'uchi, N.
Shimada, M. *See* Fujita, K.
Shimada, S. *See* Musoh, K.
Shimizu, Y. *See* Shichijo, M.
Shimohama, S. *See* Kihara, T.
—— *See* Kitamura, Y.
Shimokawa, T. *See* Goto, S.
Shinozuka, K. *See* Nakamura, Kazuki
Shiomi, H. *See* Nakamura, A.
Shiota, N. *See* Miyazaki, M.
—— *See* Song, K.
Silvestrini, B. *See* Saso, L.
Smith, D.J. *See* Holmes, B.B.
Song, K., Kanehara, H., Takai, S., Shiota, N., Wada, T., Inada, Y. and Miyazaki, M.
Ang II receptor after TCV-116 131
Sugimoto, M. *See* Harada, J.
Sullivan, J.P. *See* Zhu, D.X.-D.
Sumikawa, K. *See* Nagase, Y.
Surina-Baumgartner, D.M. *See* Uemura, K.
Susaki, Y. *See* Ideyama, Y.
Suzukawa, J. *See* Fujiseki, Y.
Suzuki, T. *See* Takeda, M.
Suzuki, Y. *See* Omiya, Y.
Suzuki, Y., Goto, K., Ishige, A., Komatsu, Y. and Kamei, J.
Antinociceptive effect of *Gosha-jinki-gan* 169
NO and antinociception by *Gosha-jinki-gan* 387

Takada, K. *See* Sakurai-Yamashita, Y.
Takagi, K. *See* Shichijo, M.
Takahashi, M. *See* Fukunaga, H.
Takahashi, M. and Kaneto, H.
Psychological SIA in formalin test 83
Takahashi, S., Shigeta, J., Ishikawa, M., Kobayashi, N. and Okabe, S.
TXA_2 and gastric ulcer healing 101
Takai, S. *See* Miyazaki, M.
—— *See* Song, K.
Takeda, K. *See* Takemura, K.
Takeda, M., Tsukamoto, K., Mizutani, Y., Suzuki, T. and Taniyama, K.
SK-951 and 5-HT_4 receptor 203
Takei, R., Ikegaki, I., Shibata, K., Tsujimoto, G. and Asano, T.
Naftopidil on prostatic pressure 447
Takemura, K. *See* Sakurai-Yamashita, Y.
Takemura, K., Takeda, K., Mameya, S., Kaibara, M. and Taniyama, K.
5-HT receptors in stomach 41
Tamagawa, T. *See* Uemura, K.
Tamaya, N. *See* Uemura, K.
Tamura, K., Kumasaka, K. and Kogo, H.
GM-CSF secretion in uterine stromal cells 257
Taniguchi, T. *See* Kitamura, Y.
Tanimoto, K. *See* Ideyama, Y.
Tanimoto, Y., Onishi, Y., Sato, Y. and Kizaki, H.
Benzodiazepine-induced thymocyte apoptosis 177
Taniyama, K. *See* Furuichi, A.
—— *See* Nagase, Y.
—— *See* Sakurai-Yamashita, Y.
—— *See* Takeda, M.
—— *See* Takemura, K.
Tannhauser, M. *See* Thiesen, F.V.
Tannhauser, S.L. *See* Thiesen, F.V.
Teramoto, S., Tomita, T., Matsui, H., Ohga, E., Matsuse, T. and Ouchi, Y.
H_2O_2-induced cell death in lung fibroblasts 33
Teranishi, Y., Kumazaki, T., Ozono, R. and Tsuru, H.
Effect of vasopression on Hiroshima rat 251
Thiesen, F.V., Barros, H.M.T., Tannhauser, M. and Tannhauser, S.L.
Behavioral and ChE changes by propoxur 25
Togawa, M. *See* Shichijo, M.
Tokunaga, I. *See* Morita, K.
Tokutomi, N. *See* Murakami, M.
Tokutomi, Y. *See* Murakami, M.
Tomita, K. *See* Murakami, M.
Tomita, T. *See* Teramoto, S.
Tsuji, M. *See* Okazaki, Masako
Tsujimoto, G. *See* Takei, R.
Tsukamoto, K. *See* Takeda, M.
Tsuru, H. *See* Teranishi, Y.
Tsushima, H. and Mori, M.
Capsaicin-induced antidiuresis 237

Uchida, R. *See* Nishijima, H.
Ueda, H.

In vivo signaling of pain 263
Ueda, M. *See* Uemura, K.
Uemura, K., Yoshioka, S., Surina-Baumgartner, D.M., Tamagawa, T., Miura, H., Ueda, M., Tamaya, N., Iguchi, A. and Hotta, N.
Central hyperglycemia by NIK or MKC 113
Uemura, N., Nakamura, Koichi, Ishii, Y., Matsukubo, S., Nyu, S. and Nakano, S.
Electrical stimulation and methotrexate 269
Uezono, Y. *See* Nagase, Y.
Urata, N. *See* Marubuchi, S.
Uyama, M. *See* Fujiseki, Y.

Valentini, G. *See* Saso, L.

Wada, T. *See* Song, K.
Waki, Y., Horita, T., Miyamoto, K., Ohya, K. and Kasugai, S.
Effect of a PDE4 inhibitor on osteopenia 477
Watanabe, A. *See* Hata, T.
Watanabe, E. *See* Fujita, K.
Wolfrum, S. *See* Dendorfer, A.
Wolfrum, S., Dendorfer, A. and Dominiak, P.
Kallidin degradation in rat heart 117

Yagi, T. *See* Okubo, K.
Yamada, T. *See* Azuma, Y.
Yamaguchi, Y. *See* Nakamura, Kazuki
Yamakawa, T. *See* Okamoto, T.
Yamamura, K. *See* Okamoto, T.
Yamamura, M. *See* Asai, H.
Yamasaki, M. *See* Azuma, Y.
Yamashita, K. *See* Sakurai-Yamashita, Y.
Yamazaki, Y. *See* Okazaki, Masako
Yamazoe, Y. *See* Fujita, K.
Yang, X.-P. and Chiba, S.
Imipramine on neurogenic vasoconstriction 461
Yasuda, T., Iwamoto, T., Ohara, M., Sato, S., Kohri, H., Noguchi, K. and Senba, E.
Novel analgesic compound OT-7100 65
Yatabe, J. *See* Kimura, J.
Yatsuka, Y. *See* Uemura, N.
Yazawa, K. *See* Ma, H.
Yoshikawa, M. *See* Fukunaga, H.
Yoshioka, S. *See* Uemura, K.

Zhu, D.X.-D., Sullivan, J.P. and Brioni, J.D.
In vivo dopamine release in rat striatum 59

SUBJECT INDEX

Volume 79 • 1999

Acetic acid test 433
Acetic acid ulcer 101
Acetylcholine release 41, 109
Aconiti tuber (processed) 169, 295
Acyl-CoA:cholesterol acyltransferase (ACAT) inhibitor 151, 159
Adrenal androgen 213
α_2-Adrenoceptor 185
α_1-Adrenoceptor antagonist 447
β_2-Adrenoceptor stimulant 401
Adrenocortical cell 213
Albumin 89
Alendronate 433
Alkalinization-induced K^+ current 343
Alzheimer's desease 1
Aminopeptidase M 117
Amphetamine 59
β-Amyloid 393
Analgesic 65
Angiotensin II 455
Angiotensin II receptor 131
Angiotensin converting enzyme 455
Angiotensin converting enzyme inhibitor 17, 221
Anti-allergic drug 351
Antianalgesia 141
Antiarrhythmic drug 275
Anticholinesterase agent 25
Antidenaturant agent 89
Anti-fighting effect 497
Antinociception 169, 295, 387
Anti-osteoporotics 379
Antioxidant 33
Anti-rheumatic agent 89
Anti-ulcer agent 195
Anti-ulcer effect 51
Anxiety 243
Apolipoprotein B-containing lipoprotein secretion 151
Apoptosis 33, 177, 369
Apoptotic cell death 1
AT_1-receptor antagonist 455
Atrial natriuretic peptide (ANP) 359

B16 melanoma cell (mouse) 335
Bamboo grass leaf extract 489
Basophil 501
Basophilic cell 351
Behavioral toxicology 25
Benign prostatic hyperplasia 447
Benzodiazepine 177
Benzofuran derivative 203
Beta-amyloid 393
Beta-sheet 393
Bile acid secretion 151
Blood-brain barrier 131
Blood vessel 221
Bone resorption 397
Borderline-hypertensive rat 251
Bradykinin 403
Brain region 313

C-type natriuretic peptide (CNP) 359
C6 glioma cell (rat) 121
Ca^{2+} 327
Ca^{2+}-overload 17
Ca^{2+}/calmodulin-dependent protein kinase II 7
Calcitonin 379
Calcitonin gene-related peptide 221
Cannabinoid 427
Cannula insertion method 461
Capsaicin 237, 427
Cardinoma cell (Lewis lung) 335
Carcinosarcoma (Walker256) 477
Cardiomyocyte 17, 275
Cardioprotection 403
Caspase-3 369
Central hyperglycemia 113
Cerebellar granule cell 369
Chemoattractant-1 439
Cholecystokinin antagonist 141
Cholecystokinin spinal role 141
Cholesterol accumulation 159
Cholesterol biosynthesis enzyme 75
Cholesterol efflux 159
Choline uptake enhancer (MKC-231) 113
Cholinesterase 25
Cholinesterase inhibitor (NIK-247) 113
Chronic hepatitis 289
Chronic neuropathy 65
Chymase 455
Cordyceps sinensis 335, 505
Colloidal carbon 505
Communication box 83, 269
Contractile response 41
Convulsion 283
Cordycepin (3′-deoxyadenosine) 335
CPP32 289
Creatine kinase 17
Cromakalim 59
CV-11974 (2-ethoxy-1-[[2′-(1*H*-tetrazol-5-yl) biphenyl-4-yl]methyl-1*H*-benzimidazole-7-carboxylic acid) 131
Cyclosporine A 485
Cynomolgus monkey 75
CYP17 213
Cytokine-induced chemoattractant-1 439
Cytoplasmic free calcium 489
Cytotoxicity 121

Degranulation 489
Depression 243
Diabetes 169, 303
Dopamine 59
Dynorphin 169, 295

Electrochemotherapy 269
Elevated plus-maze test 497
Emotional stress 83
Emotionality 231
Eosinophil 351
Escherichia coli 467
Esophogus (rat) 203
Eugenol 327
Explant culture 351
Expression system 467

Fas 485
Fatty acid 89
Fibroblast 31
Fish oil 89
Forced swimming test 243
Formalin test 83, 433

G protein 319
Gastric acid secretion 51
Gastric mucosal blood flow 51, 195
Gastroprotection 195
Gi protein 185
Glial cell 1
Glioma cell (rat C6) 121
Glucocorticoid 379
Glyburide 59
Gosha-jinki-gan 169, 387
Granulocyte-macrophage colony-stimulating factor (GM-CSF) 257

Healing 101
Heart rate 283
HepG2 cell 75, 151
Hippocampus 7
Histidine-tag 467
Histomorphometry 397
Hormone 125
5-HT_4 receptor 203
Hydrogen peroxide 33
Hyperalgesia 65
Hyperglycemia 113
Hypertension 403
Hypertensive rat (borderline-) 251
Hypocholesterolemic effect 75
Hypothalamic arcuate nucleus 295

Ileum (guinea pig) 203
Imipramine 461
Immunohistochemistry 185
In vivo microdialysis 109
Inositol trisphosphate receptor 263
Interleukin-6 439
Interleukin-13 501
Interleukin-1β-converting enzyme 289
Intestinal contraction 109
IPD-1151T (suplatast tosilate) 501

JTV-519 (4-[3-(4-benzylpiperidin-1-yl) propionyl]-7-methoxy-2,3,4,5-tetrahydro-1,4-benzothiazepine monohydrochloride) 275
Jun *N*-terminal kinase 369

K^+ channel blocker 343
K^+ current 343
K_{ATP} channel 51
Kallidin 117
Ketoconazole 213
Kinin metabolism 117
Kinin-kallikrein system 403
Kupffer cell function 505

L1210 269
Lewis lung carcinoma (LLC) cell (mouse) 335
Lipoprotein secretion (apolipoprotein B-containing) 151
Liver 289, 485
Locomotor activity 283
Long-term depression 7
Long-term potentiation 7
Lung fibroblast 33
Lysophosphatidylcholine 17

M-5011 (*d*-2-[4-(3-methyl-2-thienyl) phenyl]propionic acid) 439
m1 receptor 319
Macrophage 159
Megakaryocyte (mouse) 343
Melanoma cell (mouse B16) 335
Mesenteric resistance blood vessel 221
Metabolic inhibition 327
Methotrexate 269
α,β-Methylene ATP 461
Microdialysis 59, 109
Mitochondrial permeability transition 177
Mitogen-activated protein kinase 369
MKC-231 (2-(2-oxypyrrolidin-1-yl)-*N*-(2,3-dimethyl-5,6,7,8-tetrahydrofuro[2,3-*b*] quinolin-4-yl) acetoamide; a choline uptake enhancer) 113
Monosodium urate 439
Morphine 141
Morphine tolerance 231
Morphine withdrawal 303
Mosapride 493
Mucosal regeneration 101
Muscarinic receptor 319

Na^+ channel 275
Na^+ channel inhibitor 275
Naftopidil 447
Nasal allergy 351
Natriuretic peptide (atrial) 359
Natriuretic peptide (C-type) 359
Natriuretic peptide receptor-A (NPR-A) 359
Natriuretic peptide receptor-B (NPR-B) 359
Necrosis 33
Neurogenic vasodilation 221
Neurokinin-1 receptor 237
Neuron 1
Neurotensin 141
Neurotransmitter 125
Neurotrophic factor 427
Nicorandil 51
Nicotine 393
NIK-247 (9-amino-2,3,5,6,7,8-hexahydro-1*H*-cyclo-penta(*b*)-quinoline monohydrate hydrochloride; a cholinesterase inhibitor) 113
Nitration 125
Nitric oxide 125, 195, 387, 427
Nociceptin 263
Nociceptor 263
Non-steroidal anti-inflammatory drug (NSAID) 439
Noradrenaline turnover 303
NTE-122 (*trans*-1,4-bis[[1-cyclohexyl-3-(4-dimethylamino phenyl)ureido]methyl] cyclohexane) 151, 159

OKY-046 ((*E*)-3-[*p*-(1*H*-imidazol-1-ylmethyl)phenyl]-2-propenoic acid; TXA_2 synthase inhibitor) 101
Open-field test 497
Opening of K_{ATP} channels 51
OT-7100 (5-*n*-butyl-7-(3,4,5-trimethoxy-benzoylamino)pyrazolo[1,5-*a*]pyrimidine) 65
Ovarian steroid 257
Ovariectomized rat 477
Ovariectomy 379

p38 mitogen-activated protein kinase 369
Pain 263, 427, 433
Paraquat 121
Patch formulation 401
Periarterial nerve stimulation 461
Peroxynitrite 125
pH-response 343
Pharmacokinetics 25
Phenol sulfotransferase 467
Phosphodiesterase 4 inhibitor 477
Pituitary 313
n-3-Polyunsaturated fatty acid 89
Propofol 319
Propoxur 25
Prostate pressure 447
Prostatic hyperplasia 447
Proteasome 177
Protein kinase A 303
Protein kinase C 303

Receptor binding 313
Relaxation 327
Resistance artery 185
Retinal pigment epithelium (RPE) 359

Saiko-ka-ryukotsu-borei-to 283
[^{125}I]SB207710 ((1-*n*-butyl-4-piperidinyl)methyl-8-amino-7-iodo-1,4-benzodioxane-5-carboxylate) binding 493
Sciatic neurectomized rat 477
Secondary osteopenia 379
SK-951 ((−)4-amino-*N*-[2-(1-azabicyclo [3.3.0]octan-5-yl)ethyl]-5-chloro-2,3-dihydro-2-methylbenzo[*b*]furan-7-carboxamide hemifumarate) 203
Socio-psychological stress 83, 231
Spatial learning 7
Specific alternation of rhythm in environmental temperature (SART) stress 243
Spinal cholecystokinin antagonist 141
Spinal cord 295
Splenic artery (dog) 461
Spontaneous liver metastasis 335
Spontaneously hypertensive rat 185, 221
Stomach antrum 41
Stomach corpus 41
Stomach fundus 41
Stomach (human, guinea pig) 493
Stress 83, 231, 243, 269
Stress-induced analgesia (SIA) 83, 231
Substance P 237, 263
Suplatast tosilate 501
Supraoptic nucleus 237

T-593 ((±)-(*E*)-1-[2-hydroxy-2-(4-hydroxy-phenyl)ethyl]-3-[2-[[[5-(methylamino) methyl-2-furyl]methyl]thio]ethyl]-2-(methylsulfonyl)guanidine) 195
TA-0910 ((−)-*N*-[(*S*)-hexahydro-1-methyl-2,6-dioxo-4-pyrimidinylcarbonyl]-L-histidyl-L-prolinamide tetrahydrate) (taltirelin) 313
Taltirelin (TA-0910, TRH analog) 313
TCV-116 ((±)-1-(cyclohexyloxycarbonyloxy)-ethyl 2-ethoxy-1-[[2′-(1*H*-tetrazol-5-yl)biphenyl-4-yl]methyl]-1*H*-benzimidazole-7-carboxylate) 131
Tetranitromethane 125
Theophylline 283
Thromboxane A_2 101
Thromboxane A_2 synthase inhibitor (OKY-046) 101
Thymocyte 177
Thyroid hormone 467
Thyrotropin-releasing hormone (TRH) 313
Transgenic mouse 289
TRH analog (taltirelin, TA-0910) 313
Tulobuterol tape 401
Tyr-MIF-1 (Tyr-Pro-Leu-Gly-NH_2) 231
Tyrosine 125

Uterine stroma 257

Vascular cell 327
Vasopressin 237
Vasopressin antagonist 251
Vasopressin system 251
Voltage-gated K^+ current 343

Walker256 carcinosarcoma 477
Water extract of *Cordyceps sinensis* (WECS) 335, 505

Xenopus oocyte 319

YM116 (2-(1*H*-imidazol-4-ylmethyl)-9*H*-carbazole) 213
YM-16638 ([[5-[[3-(4-acetyl-3-hydroxy-2-propylphenoxy)propyl]thio]-1,3,4-thiadiazol-2-yl]thio]acetic acid) 75
YM175 (disodium dihydrogen (cycloheptylamino) methylene bisphosphonate monohydrate) 397